RTM-100 Series
User Manual

Remote Theatre Manager

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One-Year Limited Warranty

USL, Inc. warrants that the product will be free from defects in material and workmanship under normal usage for a period of one (1) year after its purchase new from an authorized dealer. Our obligation under this warranty is limited to repairing or replacing any product or component which we are satisfied does not conform with the foregoing warranty and which is returned to our factory, freight paid. The forgoing warranty is exclusive and in lieu of all other warranties, whether expressed or implied. Such warranty shall not apply to any product or component (A) repaired or altered by anyone other than USL, Inc. or an authorized service contractor; (B) tampered with or altered in any way or subjected to misuse, negligence or accident or (C) which has been improperly connected installed or adjusted other than in accordance with USL, Inc.'s instruction. The RTH-100 warranty is void if USL, Inc. detects that it has been damaged due to mishandling, moisture, etc.

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Safety Notices

Review the following safety precautions to avoid injury and prevent damage to this product. To avoid potential risk, use this product only as specified and only for the purpose described in the instruction manual.

To Avoid Fire and Personal Injury:

- Observe power source ratings. To avoid risk of fire or electric shock, the power source must be 100 – 240 VAC, 50 – 60 Hz.
- Do not operate with suspected failures. If you suspect there is damage or malfunction with this product, call the factory.
- Do not attempt repair. Only a trained factory service person is authorized to repair this product.
- Do not operate this product near heat sources. This product should not be located near heat sources such as radiators, heat registers, or stoves.
- Provide proper ventilation. The operating temperature range is between 0º C and 40º C. The humidity range is between 20% and 80%, non-condensing. The cooling method is convection.
- Keep product surfaces clean and dry. Disconnect the power cable from the power source before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not push objects into openings of this product. Never insert objects into the product through openings.
- Do not operate in wet or damp conditions.
- Do not operate in an explosive atmosphere.

FCC Compliance Statements

RTP-100 Wireless Server Module

This device complies with Part 15 of the FFC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RTC-100 Charging Pad

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experience radio/TV technician for help.

RTH-100 Handheld Remote Controller

This device complies with part 15 of the FCC rule. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Important: Unauthorized change or modification to this product could void the EMC compliance and negate your authority to operate the product. This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radio Frequency Interference

Radio-Frequency emission from electronic equipment can negatively affect the operation of other electronic equipment causing them to malfunction. Although RTM-100 is designed, tested, and manufactured to comply with regulations governing radio frequency emission in the United States, Canada, Japan, the European Union, and other countries, the wireless transmitter and electrical circuits in RTH-100 may cause interference in other electronic equipment. Therefore, please take the following precautions:

Pacemakers

To avoid potential interference with pacemakers, person with pacemakers:

- Should always keep RTH-100 more than 15 cm (6 inches) from their pacemaker when the device is turned on.
- Should not carry RTH-100 in a breast pocket.

If you have any reason to suspect that interference is taking place, turn RTM-100 off immediately.

Other Medical Devices

If you use any other personal medical device, consult the device manufacturer or your physician to determine if it is adequately shielded from radio frequency emissions from RTH-100.

Disposal and Recycling

Wheelie-Bin Symbol
This symbol is attached to this product in compliance with the EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE). Its purpose is to deter the improper disposal of this product and to promote reuse and recycling.

Proper Disposal
In conformance with the Directive, at end of life, this product should be either sent to an appropriate recycling facility for disassembly and recycling or returned to the supplier. Under no circumstances should this product be deposited in a landfill for disposal.

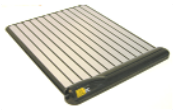
Hazards of Noncompliance
Electrical and electronic products may contain chemicals which can leach into the groundwater and cause health concerns through contaminated drinking water. Failure to dispose of this product in compliance with the WEEE Directive may result in penalties as determined by local ordinance. Please contact your dealer or USL, Inc., with questions regarding the proper disposal of this or any other USL product. USL, Inc. contact information: USL, Inc., 181 Bonetti Drive, San Luis Obispo, CA 93401-7397, USA. Phone: +1 805 549 0161 Fax: +1 805 549 0163 www.uslinc.com

The RTM Package Components

RTH-100
Handheld Remote Controller

A standard RTM-100 Series package contains a user manual, an RTH-100 handheld remote control and wireless charging case, an RTP-100 wireless server module with Ethernet cable and power receptacle adapter, an RTC-100 charging pad with power supply and associated cables.

RTP-100
Wireless Server Module



RTC-100
Charging Pad

Setup

1. Connect one end of the Ethernet cable to the RTP-100 Wireless Server Module upper port and connect the other end of the Ethernet cable to the cinema network.

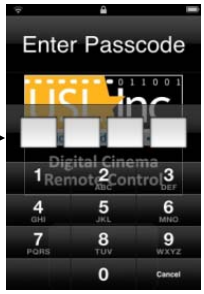
2. Plug the RTP-100 Wireless Server Module directly into a power source or via the provided power cable.

3. Wait for approximately four minutes for unit to become fully active. The user will see three lights on and one light off when confirming unit fully activated.

4. Turn on / wake the RTH-100 Handheld Remote Controller by pushing the button located on the top of the unit or on the face of the touchscreen.

5. Follow the screen prompt and slide the touchscreen button from left to right to unlock the Handheld Remote Controller.

6. Enter the default pass code "0000". (if applicable)



7. It is important to confirm a wireless connection before using the screen selection buttons. Verify a wireless connection by viewing the wireless icon that is located on the upper left corner of the handheld unit.

8. Touch one of the "Screen" icons of the touchscreen to activate a view one of the multiplex configuration.

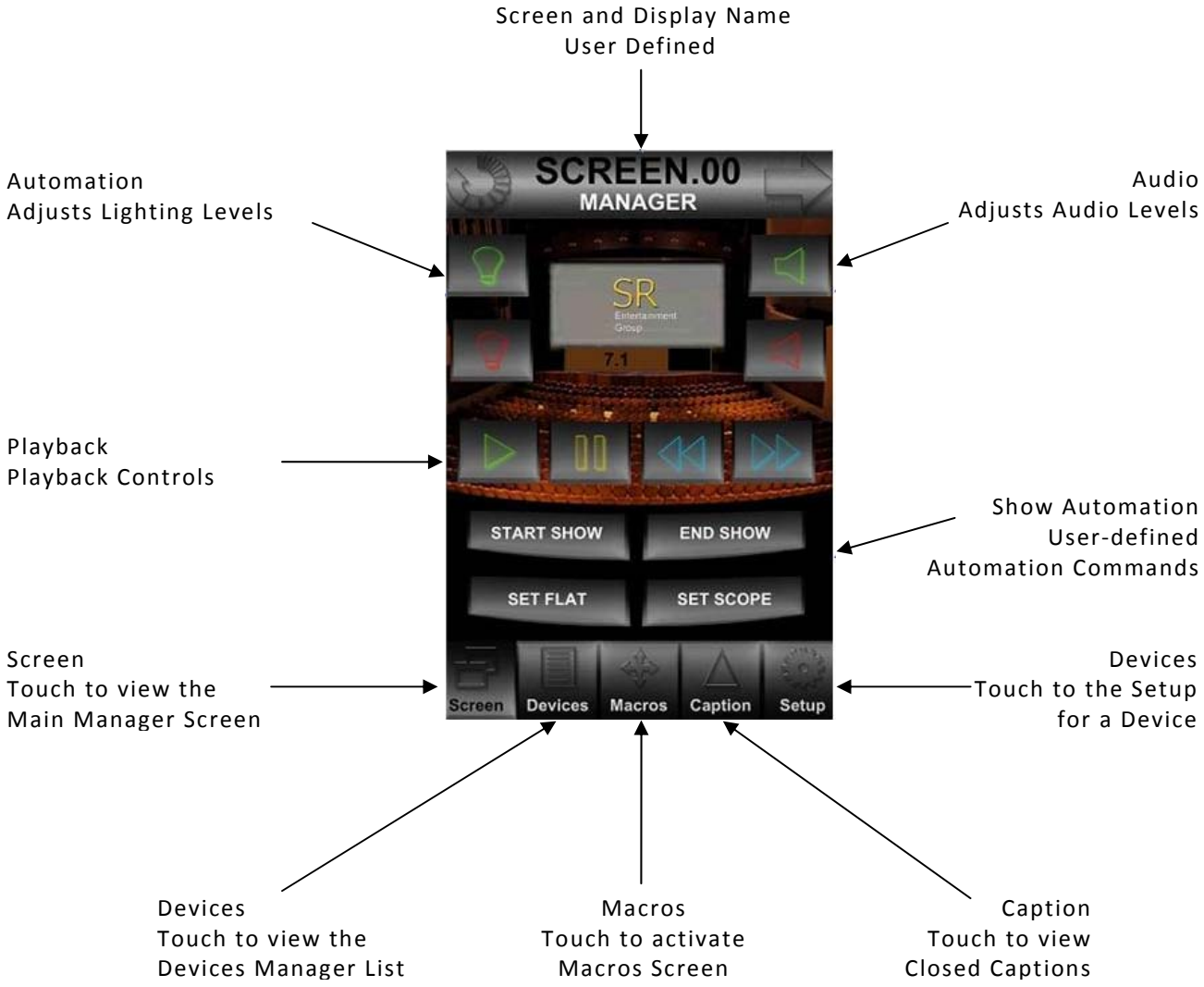
9. You are now viewing the SCREEN MANAGER. The screen name and number is displayed in the header at the top of the touchscreen.

10. The arrows located at the top left and top right of the touchscreen may be used to navigate back and forth.

11. Use the Center Logo to refresh the Fader level indicator

12. Menu options located at the bottom of the touchscreen are used to navigate the controls.

The Manager Screen



Device List Screen

Audio
USL, Inc. – JSD-100
QSC / Dolby

Projector
Barco Series II /
Christie/ NEC

Media Server
GDC Digital /
Doremi / Dolby

Automation
Christie ACT/Integ-jnior

Audio

The USL, Inc. JSD-100 Cinema Audio Processor touchscreen shown contains user controls. These options are the same as those on the front panel of the JSD-100. This touchscreen allows the user access to the front panel controls via the RTH-100 Handheld Remote Controller.

Projector

The PROJECTOR touchscreen contains common projectionist controls to remotely adjust the projector's lamp, dowser, lens movement, focus, and zoom settings.

Media

From the MEDIA touchscreen you can control the media server. This allows the content playing to be paused / un-paused as well as being able to skip forward and backwards in increments of five seconds.

The BACK and FORWARD buttons allow the user to skip back to the beginning or to the next playlist item.

Automation

AUTOMATION devices are configured with predefined command scripts that are used to control various types of theatre equipment in an auditorium. A defined automation command type is activated by touching the respective button in the AUTOMATION touchscreen. As shown, the user can control items such as the house lights in an auditorium.

Macros

Automation devices are configured with predefined command scripts that are used to control various types of operations in an auditorium. A script is executed by sending a defined command cue (a macro) which is stored in the RTP-100 Wireless Server Module and activated by touching a button from the MACROS or other touchscreens.

Note: The buttons on the MANAGER touchscreen are activated by touching a macros button that may be customized via the SETUP button.

Captions

Text sent to Closed Captions receivers may be viewed real-time on the CLOSED CAPTIONS touchscreen. As real-time text is sent to a receiver, the CLOSED CAPTIONS touchscreen is updated and text may be viewed to verify that data from the receiver is being provided.

User Types

The RTM-100 has three authorization levels; one for managers, administrators, and certified technicians.

Managers
Theatre managers can remotely access equipment managed by the RTM-100 Series system.

Administrators
Theatre administrators can perform all the tasks of theatre managers. They may also access features for new equipment setup, change equipment details, screen titles, and macros buttons.

Certified Technicians
Certified technicians can perform all the tasks of administrators. They also have the ability to install and configure devices, add new screen licenses, configure desktop icons, implement firmware updates and access the settings replication process.

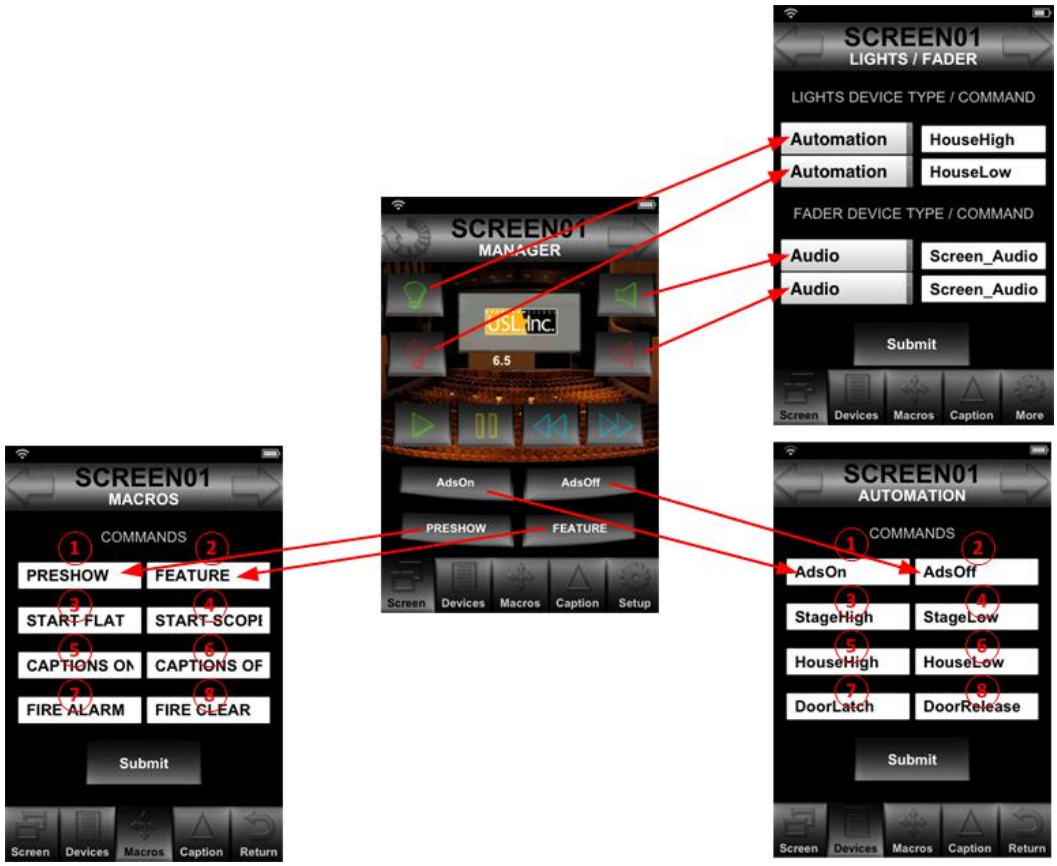
Configuring Cinema Devices

Screen Setup

The SETUP button is used to open the configuration setup screen for the selected items available for screens, devices, macros, and captions. When the SCREEN MANAGER is selected and the SETUP is activated, the configuration settings screen is displayed. For each screen number / auditorium, a configuration may be set. There is ability to enter a name for a given auditorium via the configuration screen.

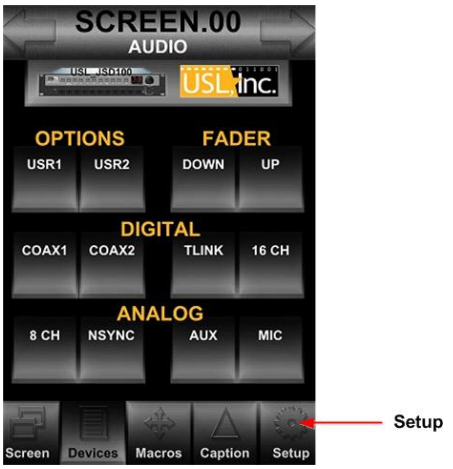
Setup navigation utilizes the Forward and Backward buttons located at the top of the screen. This area includes the settings type being viewed.

The Screen Manager contains quick access buttons that allow the user to execute common commands. The assigned button commands can be configured by the user. To access the screen setup commands, the setup screen is activated and the Lights/Fader is displayed. As shown, the relationships between the screen buttons and the commands, note that the lower four buttons are mapped to either an automation or macro command.



Device Setup

Once a device is selected for configuration, touch the SETUP button located in the lower right corner of the touchscreen. Make needed changes by selecting the device type, the IP Address, or the port and then touch the SUBMIT button located towards the lower midsection of the touchscreen. Note that some devices require a user name and pass-code to access their device (equipment).

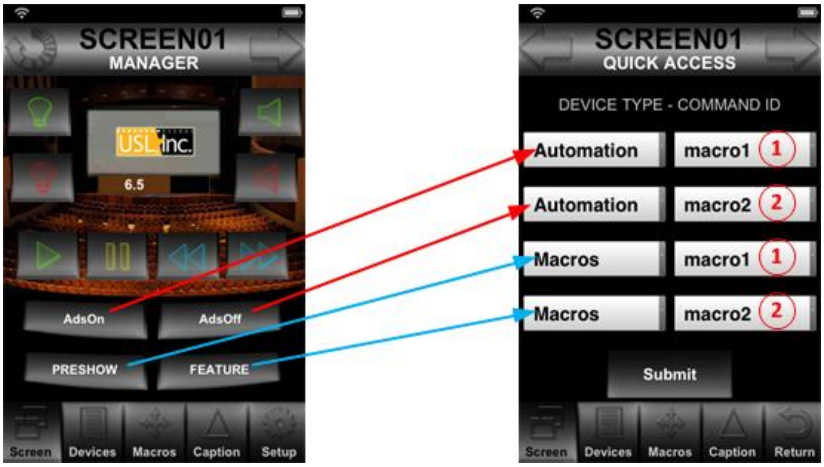


Each device has a SETUP touchscreen view. When a device is selected, the touchscreen displays the associated device type and its communications configurations. Shown below are the setup touchscreens for PROJECTOR SETUP and MEDIA SETUP.

After entering the configuration settings, activate the SUBMIT button and wait for the RTM-100 to update. When this action is complete, the MAIN MANAGER screen will display.

Note: The Automation and Macros Modules have an associated "Command Setup" touchscreen that is accessible by touching the forward arrow while in the Device Setup Screen.

On the Screen page when the Setup button is activated the Light/Fader settings are displayed, then the button on the bottom left changes to "More." This will display the Quick Access setup screen. Note the relationship between the macro number and those in the respective Automation and Macro setup screens.



Product Support

USL proudly stands behind its products. We are ready to answer any questions and address of your comments. RTM-100 application notes, manuals and other documents are available on our website at www.uslinc.com or you may contact us by:

- Phone: +1 805 549 0161
- E-mail: support@uslinc.com
- You may file a support ticket at: www.uslinc.com/support

Additional RTM-100 Series User Manuals may be viewed / downloaded at:
www.uslinc.com